



United States
Department of
Agriculture

Soil
Conservation
Service

7 South Main
Executive Plaza, Suite 104
Tooele, Utah 84074

December 18, 1986

R. K. Kronstadt
2812 Kentucky Avenue
Salt Lake City, Utah

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Dear Mr. Kronstadt,

In response to your telephone request for supplemental information on the Antone Lake Shale Quarry Rehabilitation Project, as per our discussion:

1. Generally, if adequate top soil is stock-piled to cover the spoil area no fertilizer is needed to insure the success of seeding. Since the recommended seeding will be in the late fall, very little benefit would be derived from the application of nitrogen fertilizer.
2. Ladac or Spreader II Alfalfa @ 2 Lb./ac. Pure Life Seed is recommended over Yellow Sweet clover.
3. Highcrest or Ephraim crested wheatgrass @ 7 lb./ac. Pure Life Seed is recommended if available over Common crested wheatgrass.

Please note to double the seeding rate if seeding is broadcast.

Please call me at 882-2276 if you have any questions.

Carlos Garcia

Carlos Garcia
Soil Conservationist

cc: Joe Urbanik
Tooele County Planning Commission



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United States Department of Agriculture



Revegetation schedule will be conducted in the fall prior to snow cover. Fertilizer 18-48-0, will be applied at a rate of 300 lbs. per acre. Seed will be broadcast and then covered to a depth of 1/2", by raking.

<u>Seeding Rates:</u>	<u>Lbs/acre</u>
Blue bunch wheat grass	3
Crested wheat grass	3
Indian rice grass	2
Needle and thread grass	2
Dry land alfalfa (Ladac or Spreader II)	5
Big sage brush	3
Bitter brush	3
Four salt brush	4

26 Reclamation Schedule

- A. No construction is necessary
- B. 15 days
- C. 10 years
- D. Refer to #27 reference #4

#27 Estimated Costs for Reclamation Schedule

<u>Item</u>	<u>Description</u>	<u>Days</u>	<u>Est. Cost*</u>	<u>Equipment</u>
A)	Cleanup/removal of structures	1	\$ 1,800	Dozer /Loader
B)	Backfill, grading contouring	5	12,000	Dozer/Loader grader
C)	Topsoil redistribution	2	1,600	Loader
D)	Revegetation	3	3,000	Tiller, disc Tractor
E)	Labor	-	--	(included A-D)
F)	Fencing/Safety	3	5,061	Tractor
G)	Reseeding	1	1,000	Tractor, tiller seeder
	Total	<u>15</u>	<u>\$24,461</u>	

Note: 1) Cost estimate is based on current hourly rates for dozer (\$125), loader (\$100), grader (\$125). Revegetation equipment (\$125). Fencing \$2 per ft. x 2500' + signs.

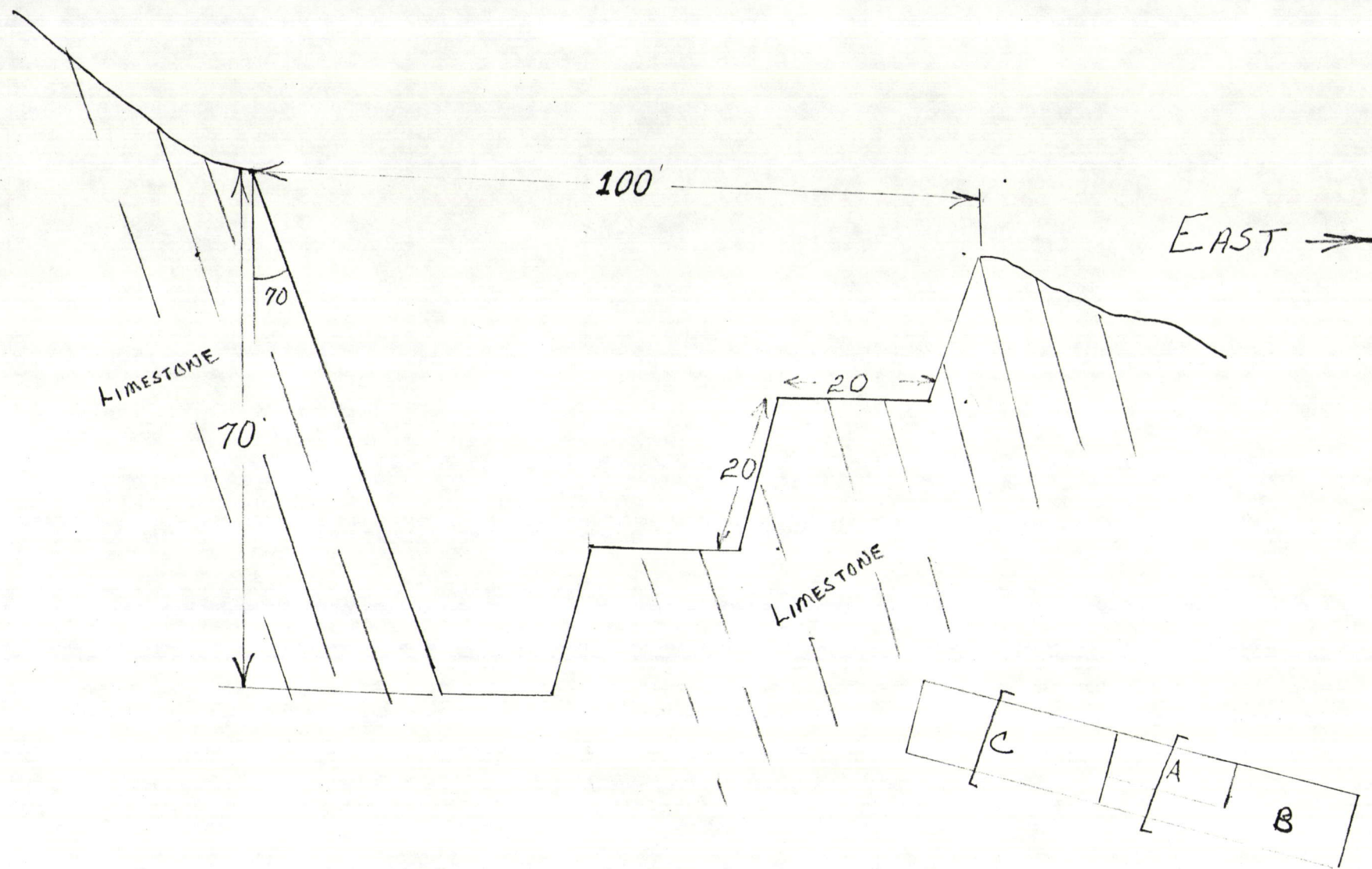
* Reference: Caterpillar handbook, edition 12.

QUARRY ANTONE MINING SEQUENCE

<u>Area</u>	<u>Use</u>	<u>Years</u>	<u>Tons/Yds</u>
A	Mining	1985-86	60 K +
A	Topsoil storage	-	2,200 yds ³
TS-1	Stockpile	-	-
B	Mining	1987-89	150 K +
B	Stockpile	-	
TS-2	Topsoil storage	-	4,400 yds ³
C	Mining	1990-92	150 K +
TS-2	Topsoil storage		7,400 yds ³

Acreage Disturbed

Area A	2.79 acres
Area B	5.75 acres
Area C	4.77 acres



TYPICAL CROSS SECTION
AREA H & C

PLAN - NEW DRAINAGE

